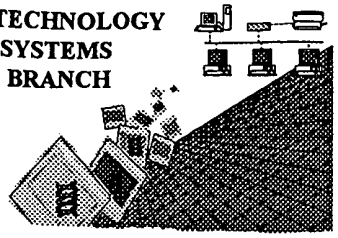
BIOTECHNOLOGY
SYSTEMS
BRANCH



1635

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TECH CENTER 1600/2900

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/699,667C
Source: 1600
Date Processed by STIC: 2/10/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

1600

RAW SEQUENCE LISTING DATE: 02/10/2003
PATENT APPLICATION: **US/09/699,667C** TIME: 14:31:38

Input Set : **A:\85761-25 Seq 19-12-02 v2.txt**
Output Set: **N:\CRF4\02102003\I699667C.raw**

```
  3 <110> APPLICANT: Perreault, Jean-Pierre
  4       Ananvoranich, Sirinart
  5       Lafontaine, Daniel
  6       Universite de Sherbrooke
  8 <120> TITLE OF INVENTION: Nucleic Acid Enzyme for RNA Cleavage
 10 <130> FILE REFERENCE: 77473-5, 258/235
 12 <140> CURRENT APPLICATION NUMBER: US/09/699,667C
 13 <141> CURRENT FILING DATE: 2001-10-30
 15 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00391
 16 <151> PRIOR FILING DATE: 1999-04-29
 18 <160> NUMBER OF SEQ ID NOS: 60
 20 <170> SOFTWARE: PatentIn Ver. 2.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 11
 24 <212> TYPE: RNA DNA
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
 29       sequence comprised of ribonucleotides or a
 30       combination of ribonucleotides and
 31       deoxyribonucleotides
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (1) ... (11)
 36 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
 38 <400> SEQUENCE: 1
W--> 39 nnrhgnnhnn n                                              11
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 11
 43 <212> TYPE: RNA DNA
 44 <213> ORGANISM: Artificial Sequence
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
 48       sequence comprised of ribonucleotides or a
 49       combination of ribonucleotides and
 50       deoxyribonucleotides
 52 <220> FEATURE:
 53 <221> NAME/KEY: misc_feature
 54 <222> LOCATION: (6) ... (11)
 55 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
 57 <400> SEQUENCE: 2
W--> 58 rrrhgnnhnn n                                              11
 60 <210> SEQ ID NO: 3
```

Does Not Comply
Corrected Diskette Needed

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If the sequence is a combination DNA/RNA, the <212 response must be DNA.

See 1.823 of Sequence Rules

RAW SEQUENCE LISTING DATE: 02/10/2003
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Input Set : **A:\85761-25 Seq 19-12-02 v2.txt**
Output Set: **N:\CRF4\02102003\I699667C.raw**

61 <211> LENGTH: 11
62 <212> TYPE: RNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
67 sequence comprised of ribonucleotides or a
68 combination of ribonucleotides and
69 deoxyribonucleotides
71 <220> FEATURE:
72 <221> NAME/KEY: misc_feature
73 <222> LOCATION: (6) ... (11)
74 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
76 <400> SEQUENCE: 3
W--> 77 gggcgnnunn n **11**
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 11
81 <212> TYPE: RNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
86 sequence comprised of ribonucleotides or a
87 combination of ribonucleotides and
88 deoxyribonucleotides
90 <220> FEATURE:
91 <221> NAME/KEY: misc_feature
92 <222> LOCATION: (6) ... (11)
93 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
95 <400> SEQUENCE: 4
W--> 96 gggcgnnhnn n **11**
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 11
100 <212> TYPE: RNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
105 sequence comprised of ribonucleotides or a
106 combination of ribonucleotides and
107 deoxyribonucleotides
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (6) ... (11)
112 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
114 <400> SEQUENCE: 5
W--> 115 gggugnnunn n **11**
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 12
119 <212> TYPE: RNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:

P.3

RAW SEQUENCE LISTING DATE: 02/10/2003
PATENT APPLICATION: US/09/699,667C TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

```
    123 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
    124       sequence comprised of ribonucleotides or a
    125       combination of ribonucleotides and
    126       deoxyribonucleotides
    128 <220> FEATURE:
    129 <221> NAME/KEY: misc_feature
    130 <222> LOCATION: (6) ... (12)
    131 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
    133 <400> SEQUENCE: 6
W--> 134 gggugnncnn nn                                                    12
    136 <210> SEQ ID NO: 7
    137 <211> LENGTH: 11
    138 <212> TYPE: RNA
    139 <213> ORGANISM: Artificial Sequence
    141 <220> FEATURE:
    142 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
    143       sequence comprised of ribonucleotides or a
    144       combination of ribonucleotides and
    145       deoxyribonucleotides
    147 <220> FEATURE:
    148 <221> NAME/KEY: misc_feature
    149 <222> LOCATION: (6) ... (11)
    150 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
    152 <400> SEQUENCE: 7
W--> 153 aaacgnnunn n                                                     11
    155 <210> SEQ ID NO: 8
    156 <211> LENGTH: 11
    157 <212> TYPE: RNA
    158 <213> ORGANISM: Artificial Sequence
    160 <220> FEATURE:
    161 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
    162       sequence comprised of ribonucleotides or a
    163       combination of ribonucleotides and
    164       deoxyribonucleotides
    166 <220> FEATURE:
    167 <221> NAME/KEY: misc_feature
    168 <222> LOCATION: (6) ... (11)
    169 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
    171 <400> SEQUENCE: 8
W--> 172 yhrhgnnhnn n                                                     11
    174 <210> SEQ ID NO: 9
    175 <211> LENGTH: 11
    176 <212> TYPE: RNA
    177 <213> ORGANISM: Artificial Sequence
    179 <220> FEATURE:
    180 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
    181       sequence
    183 <400> SEQUENCE: 9
    184 gggcgggucg g                                                       11
```

RAW SEQUENCE LISTING DATE: 02/10/2003
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Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

<210> SEQ ID NO: 10
<211> LENGTH: 10
<212> TYPE: RNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA sequence
<400> SEQUENCE: 10
gggcgggucg 10

<210> SEQ ID NO: 11
<211> LENGTH: 11
<212> TYPE: RNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA sequence
<400> SEQUENCE: 11
gggcaggucg g 11

<210> SEQ ID NO: 12
<211> LENGTH: 11
<212> TYPE: RNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA sequence
<400> SEQUENCE: 12
gggccggucg g 11

<210> SEQ ID NO: 13
<211> LENGTH: 11
<212> TYPE: RNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA sequence
<400> SEQUENCE: 13
gggcgagucg g 11

<210> SEQ ID NO: 14
<211> LENGTH: 11
<212> TYPE: RNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA sequence
<400> SEQUENCE: 14
gggcgugucg g 11

<210> SEQ ID NO: 15
<211> LENGTH: 11
<212> TYPE: RNA
<213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 02/10/2003
PATENT APPLICATION: US/09/699,667C TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt
Output Set: N:\CRF4\02102003\I699667C.raw

```
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
253       sequence
255 <400> SEQUENCE: 15
256 gggcggaucg g                                                        11
258 <210> SEQ ID NO: 16
259 <211> LENGTH: 11
260 <212> TYPE: RNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
265       sequence
267 <400> SEQUENCE: 16
268 gggcgguucg g                                                        11
270 <210> SEQ ID NO: 17
271 <211> LENGTH: 11
272 <212> TYPE: RNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
277       sequence
279 <400> SEQUENCE: 17
280 gggcgggccg g                                                        11
282 <210> SEQ ID NO: 18
283 <211> LENGTH: 11
284 <212> TYPE: RNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
289       sequence
291 <400> SEQUENCE: 18
292 gggcggggcg g                                                        11
294 <210> SEQ ID NO: 19
295 <211> LENGTH: 11
296 <212> TYPE: RNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
301       sequence
303 <400> SEQUENCE: 19
304 gggcggguag g                                                        11
306 <210> SEQ ID NO: 20
307 <211> LENGTH: 11
308 <212> TYPE: RNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
313       sequence
315 <400> SEQUENCE: 20
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/10/2003
PATENT APPLICATION: **US/09/699,667C** TIME: 14:31:39

Input Set : **A:\85761-25 Seq 19-12-02 v2.txt**
Output Set: **N:\CRF4\02102003\I699667C.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2,6,7,9,10,11
Seq#:2; N Pos. 6,7,9,10,11
Seq#:3; N Pos. 6,7,9,10,11
Seq#:4; N Pos. 6,7,9,10,11
Seq#:5; N Pos. 6,7,9,10,11
Seq#:6; N Pos. 6,7,9,10,11,12
Seq#:7; N Pos. 6,7,9,10,11
Seq#:8; N Pos. 6,7,9,10,11

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,19,20,21,22,23,24
Seq#:1; Line(s) 25,26,27,28,29,30,33,36,37,38,39,40,41
Seq#:2; Line(s) 42,43,46,47,48,49,52,55,56,57,58,59,60
Seq#:3; Line(s) 61,62,65,66,67,68,71,74,75,76,77,78,79
Seq#:4; Line(s) 80,81,84,85,86,87,89,90,93,94,95,96,97,98
Seq#:5; Line(s) 99,100,101,103,104,105,106,107,109,112,113,114,115,116,117
Seq#:6; Line(s) 118,119,120,122,123,124,125,126,128,131,132,133,134,135,136
Seq#:7; Line(s) 137,138,141,142,143,144,147,150,151,152,153,154,155
Seq#:8; Line(s) 156,157,158,160,161,162,163,164,166,169,170,171,172,173,174
Seq#:9; Line(s) 175,176,177,178,179,180,181,182,183,184,185,186
Seq#:10; Line(s) 187,188,189,190,191,192,193,194,195,196,197,198
Seq#:11; Line(s) 199,200,201,202,203,204,205,206,207,208,209,210
Seq#:12; Line(s) 211,212,213,214,215,216,217,218,219,220,221,222
Seq#:13; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234
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Seq#:15; Line(s) 247,248,249,250,251,252,253,254,255,256,257,258
Seq#:16; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270
Seq#:17; Line(s) 271,272,273,274,275,276,277,278,279,280,281,282
Seq#:18; Line(s) 283,284,285,286,287,288,289,290,291,292,293,294
Seq#:19; Line(s) 295,296,297,298,299,300,301,302,303,304,305,306
Seq#:20; Line(s) 307,308,309,310,311,312,313,314,315,316,317,318
Seq#:21; Line(s) 319,320,321,322,323,324,325,326,327,328,329,330
Seq#:22; Line(s) 331,332,333,334,335,336,337,338,339,340,341,342
Seq#:23; Line(s) 343,344,345,346,347,348,349,350,351,352,353,354
Seq#:24; Line(s) 355,356,357,358,359,360,361,362,363,364,365,366
Seq#:25; Line(s) 367,368,369,370,371,372,373,374,375,376,377,378
Seq#:26; Line(s) 379,380,381,382,383,384,385,386,387,388,389,390
Seq#:27; Line(s) 391,392,393,394,395,396,397,398,399,400,401,402
Seq#:28; Line(s) 403,404,405,406,407,408,409,410,411,412,413,414
Seq#:29; Line(s) 415,416,417,418,419,420,421,422,423,424,425,426
Seq#:30; Line(s) 427,428,429,430,431,432,433,434,435,436,437,438